

ASSIGNMENT 5

Textbook Assignment: "Line Operations and Special Programs." Pages 5-1 through 5-35.

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| <p>5-1. When you are assigned to the line division, what person becomes your department head?</p> <ol style="list-style-type: none">1. The line division officer2. The commanding officer3. The aircraft maintenance officer4. The line division chief petty officer | <p>5-5. Whenever a technician other than the plane captain performs portions of a daily/turnaround inspection on an aircraft, the plane captain is relieved of all responsibility for that aircraft.</p> <ol style="list-style-type: none">1. True2. False |
| <p>5-2. A troubleshooter must possess which of the following skills and/or knowledges?</p> <ol style="list-style-type: none">1. Skill as a technical advisor to the plane captain only2. Knowledgeable in line operations only3. Knowledgeable in flight line safety only4. Skill as a technical advisor to the plane captain and be knowledgeable in line operations and flight line safety | <p>5-6. Which of the following is a list of the qualities that a plane captain must possess?</p> <ol style="list-style-type: none">1. Technical competence, a sense of responsibility, and personal integrity2. Mechanical aptitude, personal integrity, and motivation3. Technical competence, personal integrity, and mathematical aptitude4. Mechanical aptitude, mathematical aptitude, and motivation |
| <p>5-3. Normally, what percentage of the total personnel assigned to the line division are assigned to the plane captain branch?</p> <ol style="list-style-type: none">1. Between 15 and 35 percent2. Between 35 and 55 percent3. Between 55 and 75 percent4. Between 75 and 95 percent | <p>5-7. Smoking is not permitted within how many feet of an aircraft during fueling operations?</p> <ol style="list-style-type: none">1. 25 ft2. 50 ft3. 75 ft4. 100 ft |
| <p>5-4. What is the final step in becoming a qualified plane captain?</p> <ol style="list-style-type: none">1. Be designated in writing by the commanding officer2. Be in the line division for the specified time interval3. Pass a written test4. Pass an oral test | <p>5-8. Only approved explosion proof lights can be brought within what specified distance of the refueling operations?</p> <ol style="list-style-type: none">1. 10 ft2. 20 ft3. 30 ft4. 50 ft |

- 5-9. During fueling operations, a small amount of fuel is accidentally spilled. What action should be taken?
1. The spill should be contained, and then removed once fueling is completed
 2. The spill should be contained and removed immediately
 3. A fire guard should be posted near the spill with fire- extinguishing equipment
 4. Fire authorities should be notified of the spill at once
- 5-10. A plane captain gets fuel in his eyes during fueling operations. What action should the plane captain take?
1. Get medical attention immediately
 2. After fueling operations are completed, get medical attention
 3. Flush his eyes with water, then get medical attention
 4. After fueling operations are completed, notify his or her immediate supervisor
- 5-11. How are aircraft wings and stabilizers marked in areas that should NOT be used as walkways?
1. They are painted black
 2. They are painted yellow
 3. They are marked "NO STEP"
 4. They are marked "DO NOT WALK"
- 5-12. An aircraft is being refueled by truck. What is the minimum distance from the truck that a radar set may be operated?
1. 25 ft
 2. 50 ft
 3. 75 ft
 4. 100 ft
- 5-13. A refueling crew consists of what minimum number of persons?
1. One
 2. Two
 3. Three
 4. Four
- 5-14. The type of fuel contained in the tank of a fuel truck is displayed across the side of the tank. What color and what size lettering is used on the tank?
1. 8-inch-high blue lettering superimposed on 6-inch-high red reflective tape
 2. 5-inch-high orange lettering superimposed on 7-inch-high gray reflective tape
 3. 4-inch-high green lettering superimposed on 6-inch-high gray reflective tape
 4. 6-inch-high red lettering superimposed on 8-inch-high white reflective tape
- 5-15. What are the two types of systems used to fuel naval aircraft?
1. Automatic and manual
 2. Gravity and pressure
 3. Automatic and gravity
 4. Manual and pressure
- 5-16. Which of the following is/are (an) advantage(s) of pressure fueling?
1. Fueling can be done from a single point only
 2. Aircraft can be given a faster turnaround time only
 3. Fueling and defueling can be done from a single point only
 4. Fueling and defueling can be done from a single point, which gives the aircraft faster turnaround time

- 5-17. To find the fueling instructions for an aircraft, you should refer to what publication?
1. IPB
 2. MIM
 3. PMIC
 4. MRC
- 5-18. What is the last step you should take when fueling an aircraft?
1. Apply electrical power to the aircraft
 2. Position the vent monitors on the aircraft according to the applicable MIM
 3. Check the aircraft for leaks
 4. Replace the safety cap on the aircraft receptacle
- 5-19. What device or devices is/are used to drain residual fuel?
1. Fuel cell water drain valves
 2. A defueling hose
 3. A fueling hose
 4. The engine CSD drain
- 5-20. In some cases, engine oil is identified by a four-digit number. What does this number tell you about the oil?
1. Its viscosity only
 2. Its use and viscosity
 3. Its part number only
 4. Its part number and its viscosity
- 5-21. What is the viscosity rating of aircraft engine oil No. 2085?
1. 208
 2. 2
 3. 85
 4. 20
- 5-22. What type of oil is used in most turbojet engines?
1. MIL-L-23699
 2. MIL-L-24699
 3. MIL-L-25699
 4. MIL-L-26699
- 5-23. Hydraulic fluid MIL-H-83282 is what color?
1. Clear
 2. Red
 3. Blue
 4. Orange
- 5-24. You should use hydraulic fluid MIL-H-46170 in which of the following instances?
1. The hydraulic systems of naval aircraft only
 2. In the hydraulic systems of Air Force aircraft only
 3. The hydraulic systems of naval and Air Force aircraft
 4. When preserving hydraulic systems and components in naval aircraft
- 5-25. A can of hydraulic fluid has been opened and partially used. When should this open can be disposed of?
1. Within 24 hours only
 2. Within 48 hours only
 3. Within 72 hours
 4. Immediately
- 5-26. When an aircraft lacks a tire inflation chart plate, a plane captain should obtain tire inflation pressure data from what source?
1. The applicable IPB
 2. The applicable MIM
 3. The maintenance requirements card
 4. OPNAVINST 4790.2

IN ANSWERING QUESTION 5-27, REFER TO FIGURE 5-6 IN THE TEXTBOOK.

- 5-27. An aircraft is land based and has a gross weight of 19,000 pounds. What is the proper tire pressure for this aircraft?
1. 280 psi
 2. 290 psi
 3. 300 psi
 4. 310 psi
- 5-28. What equipment should you always use when inflating aircraft tires?
1. A portable air bottle
 2. An air servicing trailer
 3. A nitrogen servicing trailer
 4. A remote inflator unit
- 5-29. Which of the following is a safety precaution you should follow before you remove a wheel from an aircraft?
1. Inflate the tire
 2. Deflate the tire
 3. Check the tire for proper inflation
 4. Disassemble split-type tires
- 5-30. What personnel have the responsibility for refilling liquid oxygen converters?
1. Plane captains
 2. Aircrewmembers
 3. AMEs
 4. AMHs
- 5-31. Of the following parts of high-pressure air valve MS 28889-1) which one presents a FOD hazard and is normally removed?
1. The dust cover
 2. The pin
 3. The valve stem
 4. The O-ring
- 5-32. A total of how many gas cylinders are carried on an air or nitrogen servicing trailer?
1. Eight
 2. Six
 3. Three
 4. Four
- 5-33. You need to determine the remaining amount of oil in the preoiler (PON-6). What device should you use?
1. A float gauge
 2. A sight glass
 3. A direct-reading gauge
 4. A dipstick
- 5-34. What device should be used to catch the overflow oil when the preoiler (PON-6) is used?
1. A bucket
 2. A specially designed drain pan
 3. A drain bottle assembly
 4. A waste oil rag
- 5-35. What type of filtration system is used in an HSU-1 to make sure that clean hydraulic fluid is delivered to an aircraft system?
1. A 1-micron filtration system
 2. A 2-micron filtration system
 3. A 3-micron filtration system
 4. A 4-micron filtration system
- 5-36. What is the exact capacity of the reservoir on the HSU-1?
1. 1 gal
 2. 2 gal
 3. 3 gal
 4. 4 gal

5-37. While an HSU-1 is not in use, what method is used to make sure that the hose end remains clean?

1. It is covered with a MAF bag
2. It is covered with bubble wrap
3. It is connected to an external fitting
4. It is connected to a fitting on the base of the HSU-1

5-38. In the Navy, you are responsible for your own safety as well as the safety of your shipmates.

1. True
2. False

5-39. What device should be used on or around jet intakes during ground maintenance turnup of jet aircraft?

1. Protective struts
2. Protective covers
3. Protective screens
4. Protective stands

5-40. After operation, personnel should not work on the exhaust section of a jet engine for what minimum period?

1. 15 min
2. 30 min
3. 45 min
4. 60 min

5-41. Personnel working around jet aircraft should take which of the following precautions to protect their hearing?

1. Wear the proper ear protection
2. Complete work within exposure time limits
3. Have periodic checks on hearing ability
4. Each of the above

IN ANSWERING QUESTION 5-42, REFER TO FIGURE 5-13 IN THE TEXTBOOK.

5-42. When the aircraft shown is at military power, in what zone would you be exposed to a maximum of 112 dB of engine noise?

1. Contour A
2. Contour B
3. Contour C
4. Contour D

5-43. Which of the following is either a safety precaution or a safety attitude that you should follow when you are working with or around ejection seats?

1. Always consider an ejection seat system as loaded and armed
2. Only authorized personnel may work on ejection seats
3. Ejection seats must be treated with the same respect as a loaded gun
4. Each of the above

5-44. From what direction should personnel approach an overheated wheel?

1. At a 45° angle
2. From the right side
3. From the left side
4. From the fore or aft direction

5-45. What is the recommended procedure for cooling an overheated wheel?

1. Spray the wheel with CO₂
2. Spray the wheel with cool water
3. Spray the wheel with AFFF
4. Park the aircraft in an isolated area for 45 to 60 minutes

- 5-46. If operational necessity dictates that a wheel be cooled immediately, a plane captain should get supervision from personnel who are in what rating?
1. AM
 2. AD
 3. AE
 4. AT
- 5-47. If you have to handle liquid oxygen, you should wear what type of gloves?
1. Tight-fitting rubber
 2. Loose-fitting rubber
 3. Tight-fitting leather
 4. Loose-fitting leather
- 5-48. You are handling liquid oxygen. Which of the following is a description of the way you should wear your clothing?
1. Wear cuffless trousers
 2. Tuck your trousers into your shoes
 3. Roll up your sleeves
 4. Roll up your trousers
- 5-49. Which of the following is a safety precaution that you should follow when working with liquid oxygen?
1. Do not carry matches in liquid oxygen handling areas
 2. Keep tools free from oil and grease
 3. Do not permit smoking in liquid oxygen handling areas
 4. Each of the above
- 5-50. Predeployment training lectures for personnel associated with the flight deck should include which of the following topics?
1. Flight deck and hangar deck safety precautions
 2. Tie-down requirements and techniques
 3. Special shipboard maintenance procedures
 4. Each of the above
- 5-51. During the launching and recovery of aircraft, all personnel that are not required by such operations should stand clear of 'personnel involved in the launch and recovery operations.
1. True
 2. False
- 5-52. Plane captains are required to wear (a) what color helmets and (b) what color flotation vests?
1. (a) Brown (b) green
 2. (a) Brown (b) brown
 3. (a) Green (b) brown
 4. (a) Green (b) green
- 5-53. What person has the authority to approve aircraft jacking?
1. The maintenance chief
 2. The maintenance officer
 3. The shop supervisor
 4. The aircraft handling officer

- 5-54. Which of the following publications should you consult to find the details of special programs?
1. NAVAIR 01-1A-509
 2. NAVAIR 15-1-540
 3. OPNAVINST 4790.2
 4. OPNAVINST 5000.3
- 5-55. What causes the largest percentage of premature engine removals?
1. Faulty manufacturing
 2. Foreign object damage
 3. Faulty maintenance
 4. Pilot error
- 5-56. Which of the following is/are (a) major cause(s) of FOD?
1. Poor housekeeping only
 2. Improper maintenance practices only
 3. Carelessness only
 4. Poor housekeeping, improper maintenance practices, and carelessness
- 5-57. The Tool Control Program is based upon which of the following concepts?
1. Preventive maintenance
 2. Instant inventory
 3. Tool replacement
 4. Tool usage
- 5-58. Which of the following is an outcome of the Tool Control Program?
1. Greater initial outfitting and tool replacement costs
 2. More tool pilferage
 3. More man-hours required to complete each maintenance task
 4. Increased availability of proper tools for specific maintenance tasks
- 5-59. During a daily/turnaround inspection, a plane captain discovers a piece of hydraulic equipment is out of calibration. What action(s) should the plane captain take?
1. Complete the inspection, and then notify his or her supervisor
 2. Notify his or her supervisor immediately
 3. Use the unit because the calibration is not important
 4. Notify his or her supervisor at the end of the shift
- 5-60. What form should you use when requesting oil analysis on an oil sample?
1. VIDS/MAF
 2. DD Form 2024
 3. DD Form 2027
 4. DD Form 2026
- 5-61. Detailed information concerning maintenance requirements and acceptable contamination levels of hydraulic fluid can be found in which of the following publications?
1. OPNAVINST 4790.2
 2. NOAP manual
 3. NAVAIR 01-1A-17
 4. NAVAIR 01-1A-509
- 5-62. Under normal conditions, at what interval will a plane captain take a fuel sample?
1. Before the first flight each day
 2. Before and after each flight
 3. Every 72 hours
 4. When directed by maintenance control

- 5-63. An egress system checkout for personnel working on or around aircraft must be given by a qualified individual who is in what rating?
1. AD
 2. AE
 3. AME
 4. AMH
- 5-64. After the initial egress system checkout, maintenance personnel must receive an additional checkout a minimum of how often?
1. Every 12 months
 2. Every 9 months
 3. Every 3 months
 4. Every 6 months
- 5-65. Personnel removed from maintenance responsibilities for over what minimum period must receive a new egress system checkout?
1. 60 days
 2. 90 days
 3. 30 days
 4. 120 days
- 5-66. What action(s) help(s) prevent the improper use of SE?
1. Ready availability of the equipment
 2. Effective supervision of personnel only
 3. Training of personnel only
 4. Effective supervision and training of personnel
- 5-67. After the appropriate signatures have been obtained, an SE license is good for what maximum period?
1. 1 yr
 2. 2 yr
 3. 3 yr
 4. 4 yr
- 5-68. What type of inspection is performed when an aircraft returns from SDLM?
1. Conditional
 2. Acceptance
 3. Periodic
 4. Special
- 5-69. What type of inspection divides the total scheduled maintenance concept into small packages?
1. Special
 2. Phase
 3. Preflight
 4. Turnaround